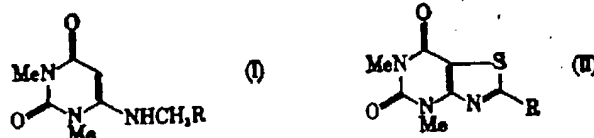


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Page: 12655

12658v Reactions of 6-amino-1,3-dimethyluracils with thionyl chloride. I. Novel thiazole synthesis. 4,5,6,7-Tetrahydrothiazolo[4,5-d]pyrimidine-5,7-diones. Goldman, I. M. (Med. Res. Lab., Chas. Pfizer and Co., Inc., Groton, Conn.). *J. Org. Chem.* 1969, 34(11), 3285-9 (Eng). 6-Amino-1,3-dimethyluracils (I, R = H, CO<sub>2</sub>H, CO<sub>2</sub>Et, Ph, and CF<sub>3</sub>) undergo facile conversion to the corresponding thiazolopyrimidines (II) upon

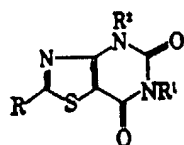


treatment with SOCl<sub>2</sub>-pyridine, except for I (R = CF<sub>3</sub>), where SOCl<sub>2</sub> is more effective in absence of pyridine. II (R = H, CO<sub>2</sub>H and CO<sub>2</sub>Et) were reported previously by Schroeder (1964). The reaction is presumed to proceed via dehydration of the intermediate thiazoline S-oxides. A different reaction is observed when an inferior grade of SOCl<sub>2</sub> is used in the absence of pyridine, resulting in the formation of sulfides and products derived therefrom. Speculation is offered on the mechanism of thiazole formation from suitably substituted 6-aminouracils. RCKF

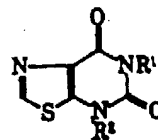
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Page: 3367

36067r Thiazolo-N-hydroxyuracils. Bauer, Ludwig; Mahajanshetti, C. S. (Med. Center, Univ. of Illinois, Chicago, Ill.). *J. Heterocycl. Chem.* 1968, 5(3), 331-5 (Eng). The partial Lossen degradation of the hydroxamic acid group at C-4 or C-5 of Na 4,5-thiazoledicarbohydroxamate and its 2-Me analog initiated a multicoursed reaction which furnished a mixt. of thiazolo-[4,5-*d*]- (I) and thiazolo[5,4-*d*]-N-hydroxyuracils (II). The isomer distribution was sensitive to the solvent systems in which these reactions were carried out. The structure of the isomers



(I)



(II)

so obtained was established by chem. and spectral methods.  
 RCKS